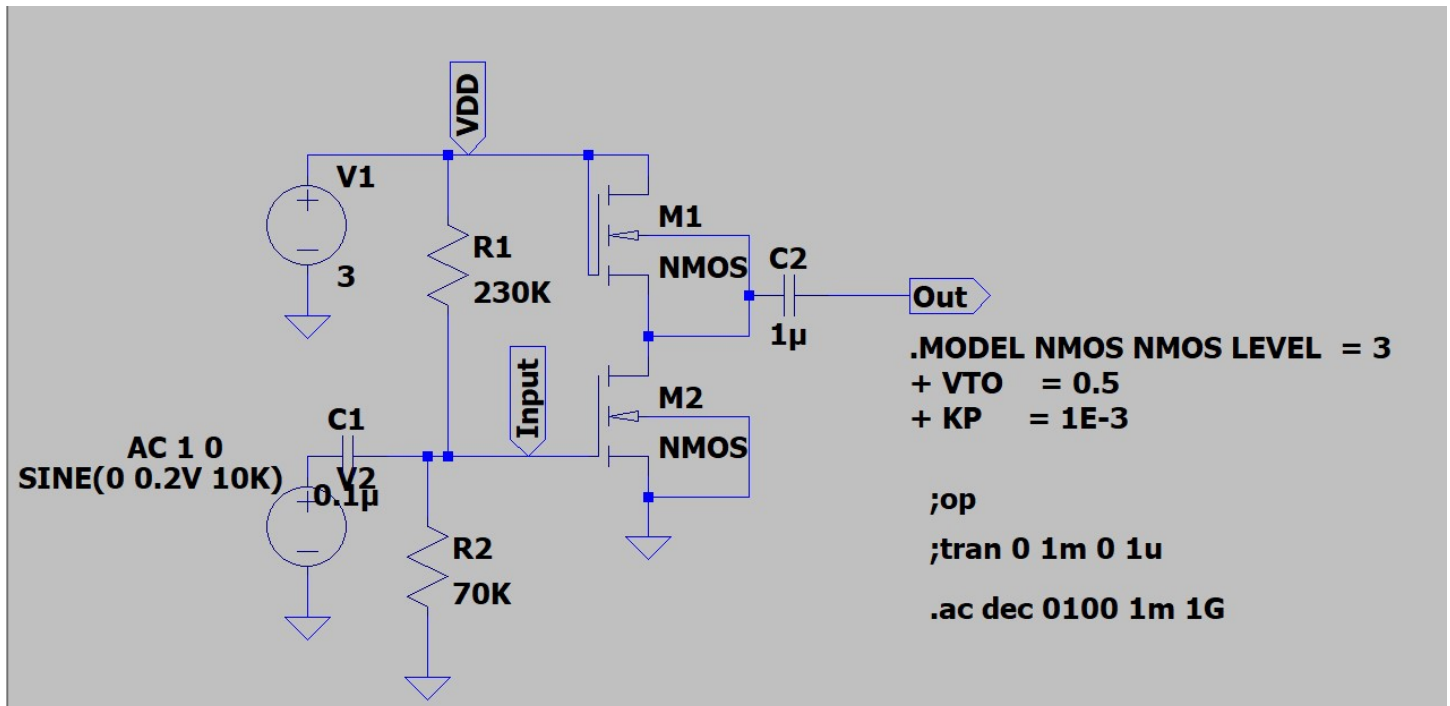


Question 2, LTSPICE MODEL:

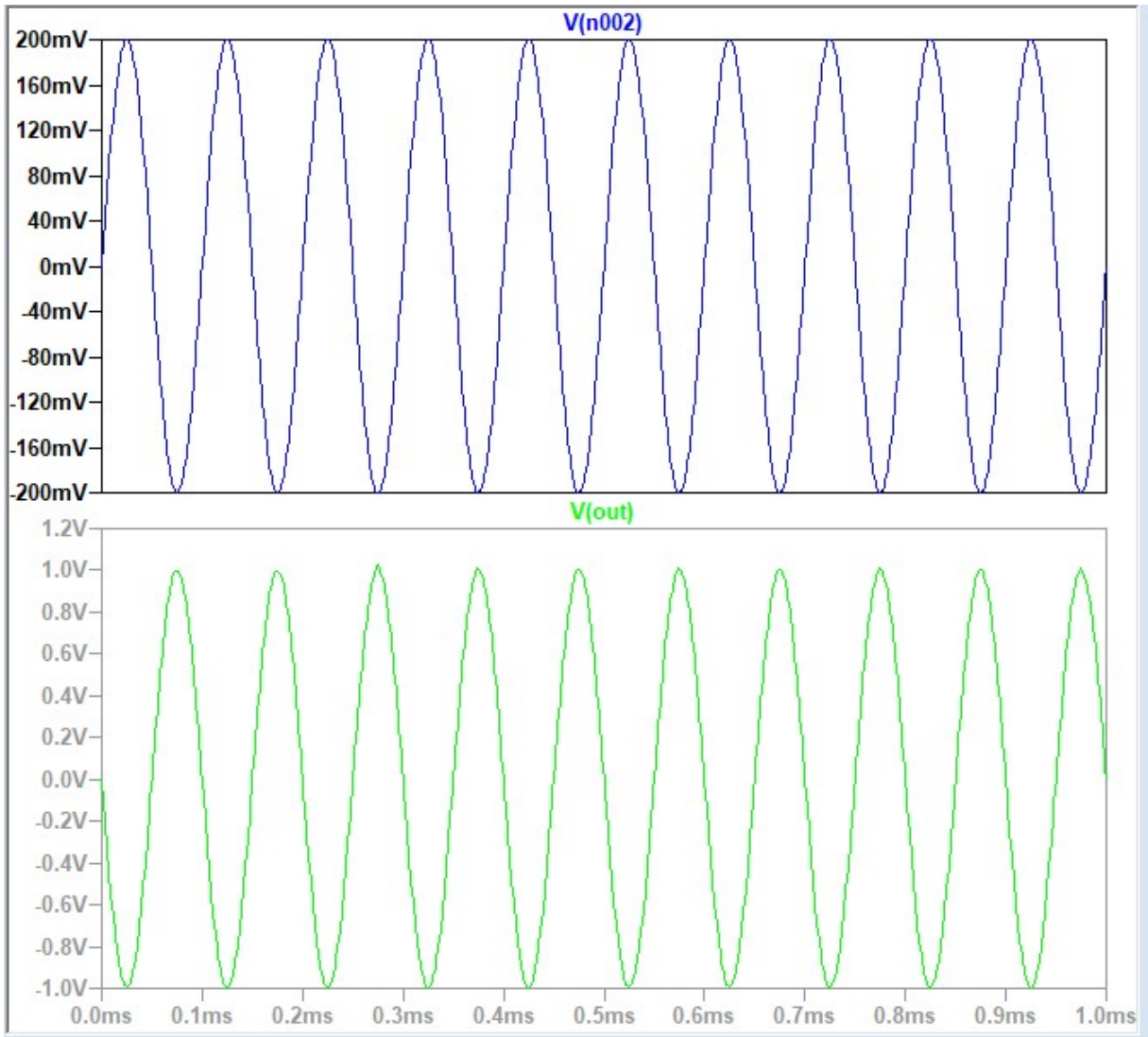
DIAGRAM



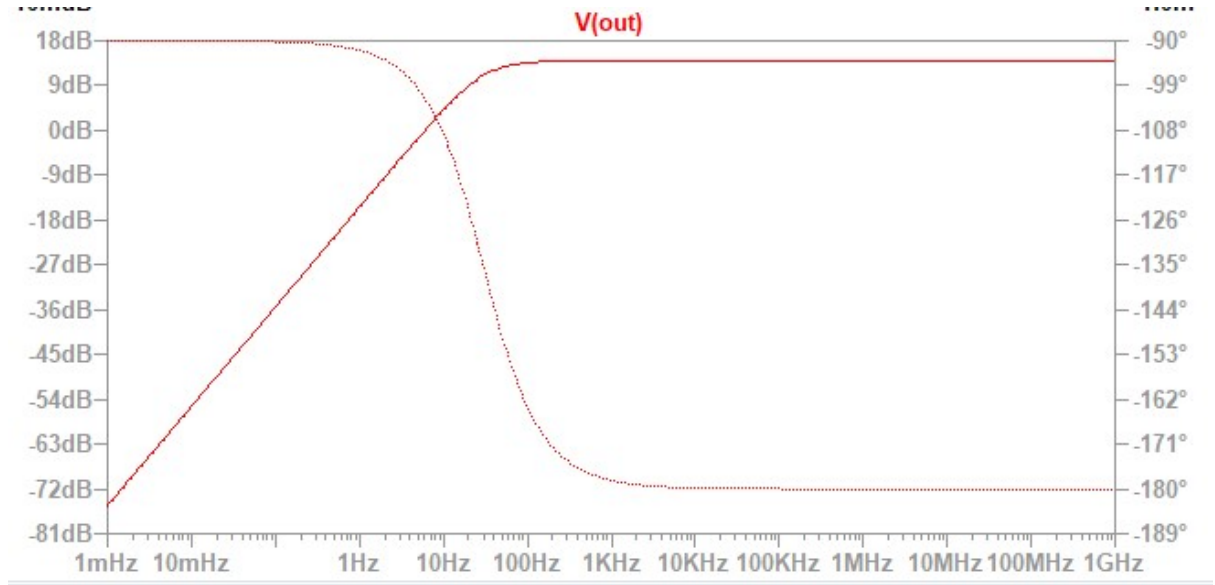
DC Operating point analysis:

--- Operating Point ---		
V(vdd) :	3	voltage
V(n001) :	1.5	voltage
V(input) :	0.7	voltage
V(n002) :	0	voltage
V(out) :	1.5e-006	voltage
Id(M2) :	0.001	device_current
Ig(M2) :	0	device_current
Ib(M2) :	-1.51e-012	device_current
Is(M2) :	-0.001	device_current
Id(M1) :	0.001	device_current
Ig(M1) :	0	device_current
Ib(M1) :	-1.51e-012	device_current
Is(M1) :	-0.001	device_current
I(C2) :	-1.5e-018	device_current
I(C1) :	7e-020	device_current
I(R2) :	1e-005	device_current
I(R1) :	1e-005	device_current
I(V2) :	7e-020	device_current
I(V1) :	-0.00101	device_current

Transient Analysis:

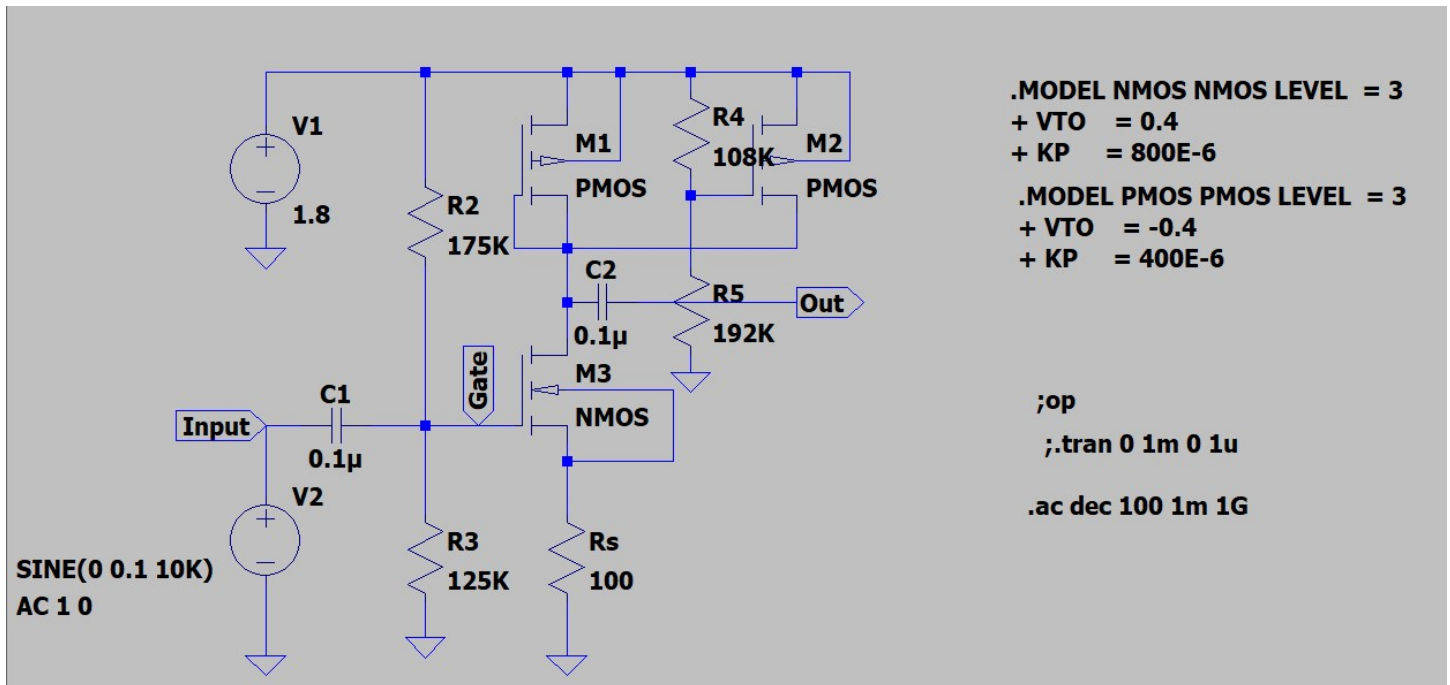


Gain and Phase:



Question 3, LTSPICE MODEL:

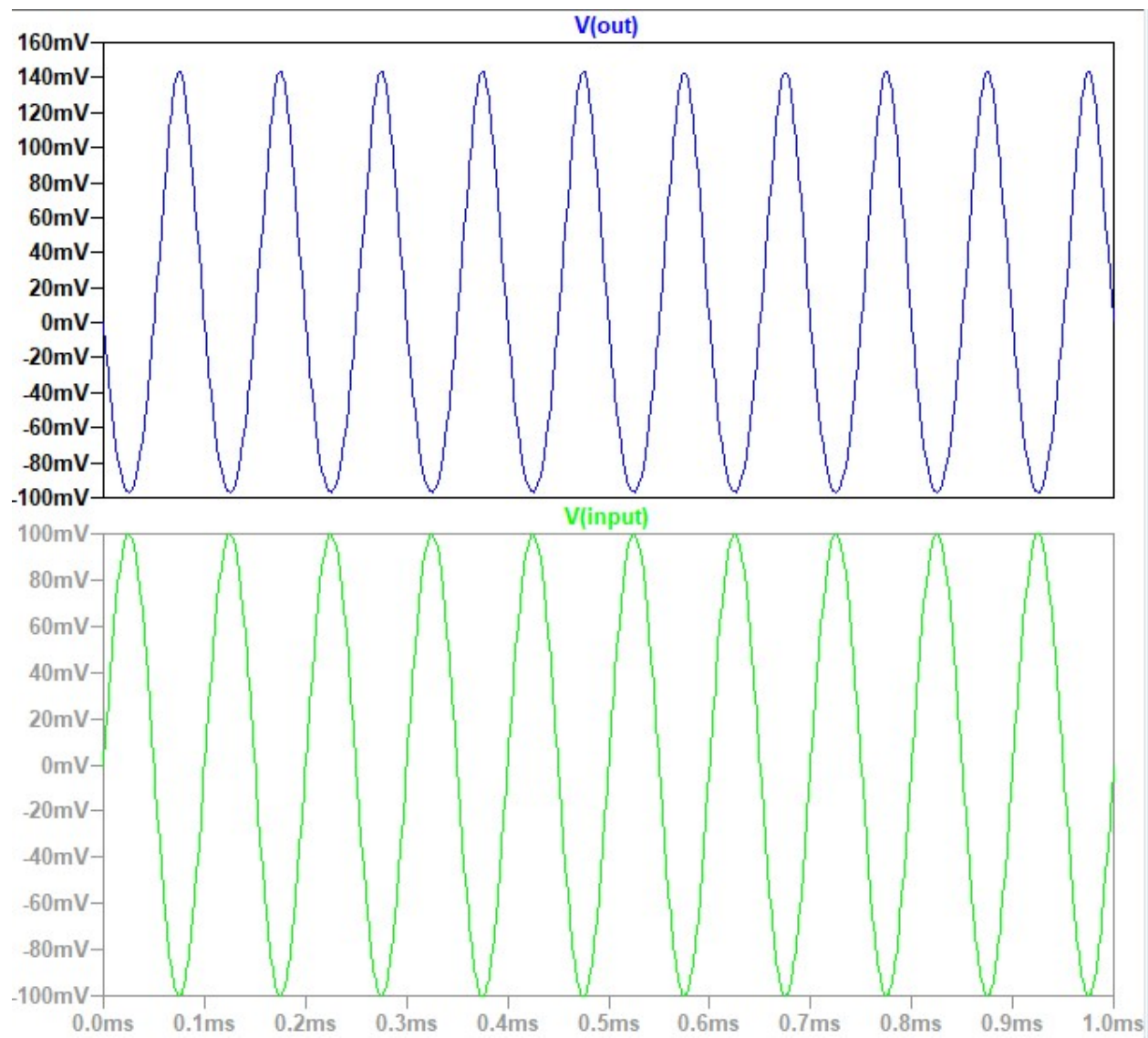
DIAGRAM



DC Operating point analysis:

--- Operating Point ---		
V(n001) :	1.8	voltage
V(n003) :	1.14802	voltage
V(n002) :	1.152	voltage
V(gate) :	0.75	voltage
V(n004) :	0.1	voltage
V(input) :	0	voltage
V(out) :	1.14802e-007	voltage
Id(M3) :	0.001	device_current
Ig(M3) :	0	device_current
Ib(M3) :	-1.05802e-012	device_current
Is(M3) :	-0.001	device_current
Id(M2) :	0.000492032	device_current
Ig(M2) :	-0	device_current
Ib(M2) :	6.61985e-013	device_current
Is(M2) :	-0.000492032	device_current
Id(M1) :	0.000507971	device_current
Ig(M1) :	-0	device_current
Ib(M1) :	6.61985e-013	device_current
Is(M1) :	-0.000507971	device_current
I(C2) :	-1.14802e-019	device_current
I(C1) :	7.5e-020	device_current
I(R5) :	6e-006	device_current
I(R4) :	6e-006	device_current
I(R3) :	6e-006	device_current
I(R2) :	6e-006	device_current
I(Rs) :	0.001	device_current
I(V2) :	7.5e-020	device_current

Transient Analysis:



Gain and Phase:

